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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/714,801	11/17/2003	Yun-Ho Choi	SAM-0486	2965
04 34 3471	7590 03/08/2007		EXAM	INER
Steven M. Mills MILLS & ONELLE LLP Suite 605 Eleven Beacon Street Boston, MA 02108			GRAYBILL, DAVID E	
			ART UNIT	PAPER NUMBER
			2822	2822
SHORTENED STATUTORY PERIOD OF RESPONSE		MAIL DATE	DELIVERY MODE	
3 MONTHS		03/08/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Office Action Summary    10/714,801		Application No.	Applicant(s)					
David E. Graybill		10/714,801	CHOI ET AL.					
The MALLING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  Educations of time may be evaluate under the provided on 37 CFR 1.18(b), in ne event, however, may a reply the timely filed  If NO period for reply is specified above, the maximum statistery priods will exply and will expire SIX (6) MONTHS from the malling date of this communication.  Failure for expire yields the set of cented period for reply with the set of cented period for reply with the set of cented period for reply with the set of cented period for reply will, by statins, cause the application of communication (s) filed on 18 December 2006.  2a) This action is FINAL.  2b) This action is non-final.  3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4) Claim(s) 1-5x,9.11-15 and 17 is/are pending in the application.  4a) Of the above claim(s) 2-5x,9.11-15 and 17 is/are withdrawn from consideration.  5) Claim(s) is/are allowed.  6) Claim(s) is/are allowed.  6) Claim(s) is/are allowed.  7) The grawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) All b) Some c) Mone of:  11 Certified copies of the priority doc	Office Action Summary	Examiner	Art Unit					
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WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  Educations of time may be available under the proteines of 3 CFR 1.15(a). In a over, however, may a reply be limely filed after 50x (6) MONTHS from the mailing date of this communication.  Failubes travel, within the soft contended prind for review 10 to 1		ears on the cover sheet with the c	orrespondence address					
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Applicant's election without traverse of the species wherein a package type of the first semiconductor chip is a Wafer-Level Chip Size Package (W-CSP), allegedly drawn to claims 1-5 and 7 in the reply filed on 12-18-6 is acknowledged. However, claims 2-5 and 7 are not drawn to the elected species. To further clarify, claim 2 is drawn to the species wherein a package type of the printed circuit board is a TQFP.

Claims 2-5, 7, 9, 11-15 and 17 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected species, there being no allowable generic or linking claim. Election was made **without** traverse in the reply filed on 12-18-6.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the

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time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claim 1 is rejected under 35 U.S.C. 103(a) as being unpatentable over the combination of Corisis (6607937) and Chang (20020153599).

At column 1, lines 12-17; column 4, line 28 to column 5, line 25; and column 5, line 60 to column 6, line 37, Corisis discloses a multi-chip package comprising: a first semiconductor chip 423a, 424a which shows good results when tested for reliability after being assembled at a package level; at least one second semiconductor chip 424b which is in a wafer level configuration and is stacked on the first semiconductor chip via stacking means "adhesive," wherein a back surface of the first semiconductor chip abuts a back surface of the second semiconductor chip; a first connecting unit attached to a surface opposite the back surface of the first semiconductor chip 443a for electrically connecting the first semiconductor chip to an external system 430; and a second connecting unit 443b attached to at a surface opposite the back surface of the second semiconductor chip, for electrically connecting the second semiconductor chip to the external

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system, wherein the first connecting unit is different from the second connecting unit, and the first semiconductor chip includes a "memory."

To further clarify, Corisis discloses that the back surface abuts the back surface because Corisis discloses that the back surface touches (is in contact with (at least indirectly)) along a border with the back surface. To further afford applicant the benefit of compact prosecution, it is noted that there is no support in the original disclosure for the scope of the term abuts to be limited to wherein the back surface is in direct contact with the back surface because the original disclosure discloses adhesive between the surfaces, and such a limitation is not otherwise originally disclosed.

However, Corisis does not appear to explicitly disclose that the first semiconductor chip includes a flash memory.

Nonetheless, at paragraph 9, Chang discloses that a first semiconductor chip 21 includes a flash memory. Furthermore, it would have been obvious to combine this disclosure of Chang with the disclosure of Corisis because it would facilitate provision of the first semiconductor chip which includes a memory of Corisis.

Applicant's remarks filed 12-18-6 have been fully considered and are adequately treated supra.

For information on the status of this application applicant should check PAIR: Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

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applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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Alternatively, applicant may contact the File Information Unit at (703) 308-2733. Telephone status inquiries should not be directed to the examiner. See MPEP 1730VIC, MPEP 203.08 and MPEP 102.

Any other telephone inquiry concerning this communication or earlier communications from the examiner should be directed to David E. Graybill at (571) 272-1930. Regular office hours: Monday through Friday, 8:30 a.m. to 6:00 p.m.

The fax phone number for group 2800 is (571) 273-8300.

David E. Graybill Primary Examiner Art Unit 2822